2. General Information

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AMENDMENT RECORD SHEET

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Introduction to RAE–3

RAE–3 is a dualband communicator with high speed data (HSCSD) for the GSM 900 and DCS1800 networks. The GSM power class is 4 and the PCN power class is 1.

The RAE–3 Communicator provides an advanced and versatile connection between people via various media: cellular phone, fax, sms, e–mail and internet.

Technical Summary

The communicator has a full graphic phone display and a user interface based on two soft keys on the front cover.

The device comprises two user interfaces. The conventional cellular phone interface is on the front cover. By opening the device the user can access the graphical user interface to use the Personal Digital Assistant.

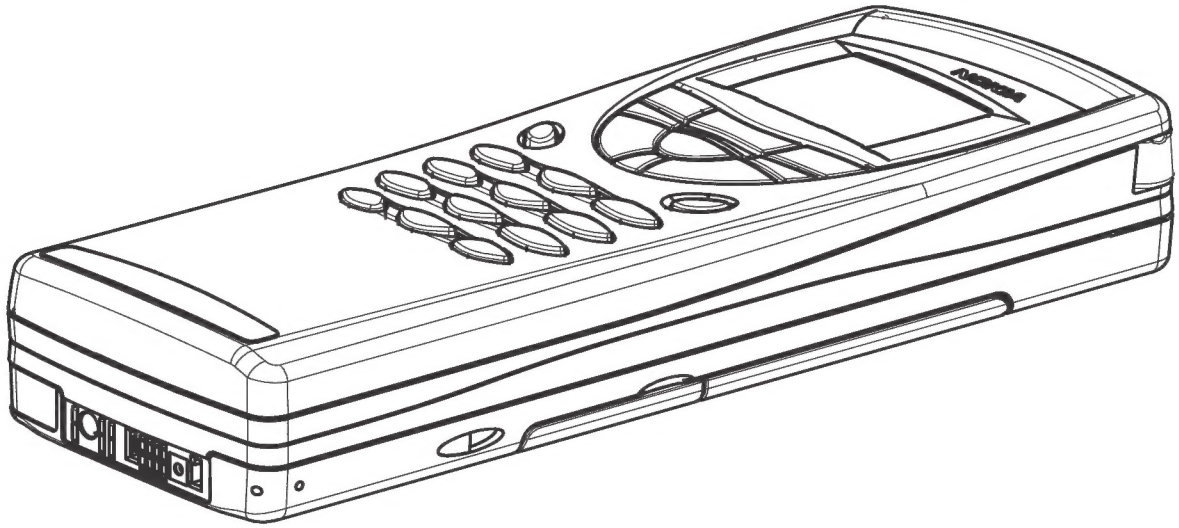

Figure 1: RAE–3 CMT Interface

The RAE–3 has a clamshell structure. The PDA display and full QWERTY keyboard are visible when the device is opened. The PDA user interface has a full graphic 640 x 200 colour (4096 colours) display.

The phone employs a fixed stripline antenna. The bottom 'system' connector incorporates a RF connector for car–kit antenna connection.

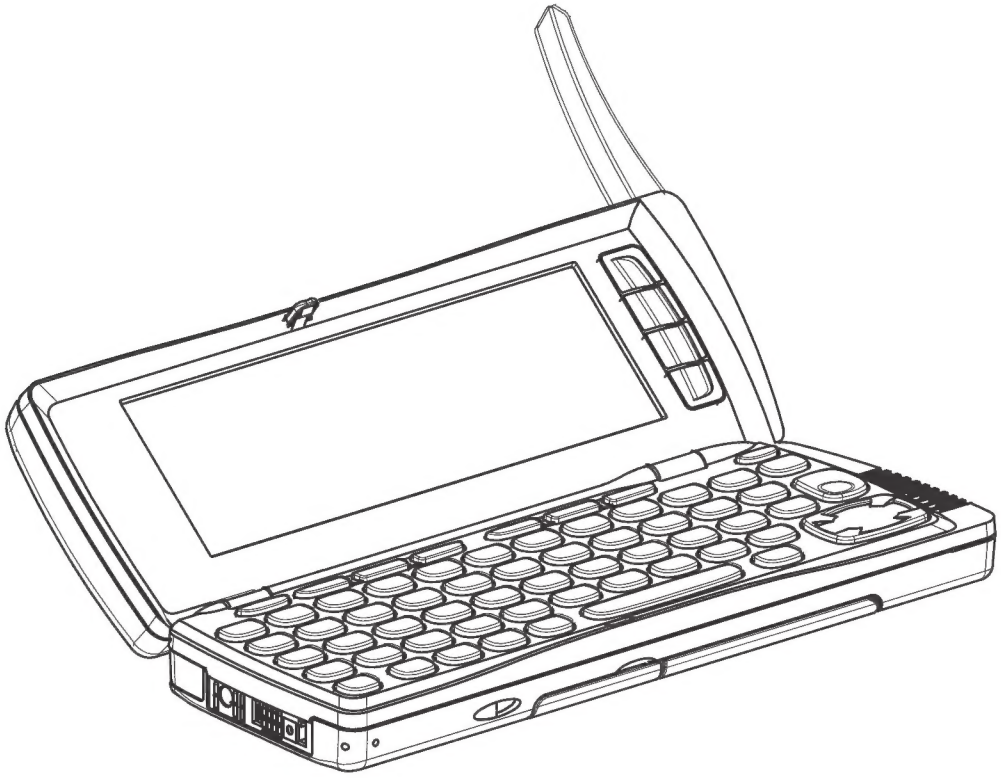

Figure 2: RAE–3 PDA Interface

The communicator has a leakage tolerant earpiece and omnidirectional microphone providing excellent audio quality. Full rate, enhanced full rate and half rate speech decoding is supported. High quality personal hands free functionality is also provided.

An integrated IrDA link is provided for data transfer between two RAE–3 communicators or between the communicator and a PC or printer. RS232 connection can also be used between communicator and PC.

A Memory Card slot is located inside the communicator. This card can be used to extend user data memory and to store applications.

The SIM (Subscriber Identity Module) card is located inside the communicator, next to the battery pack..

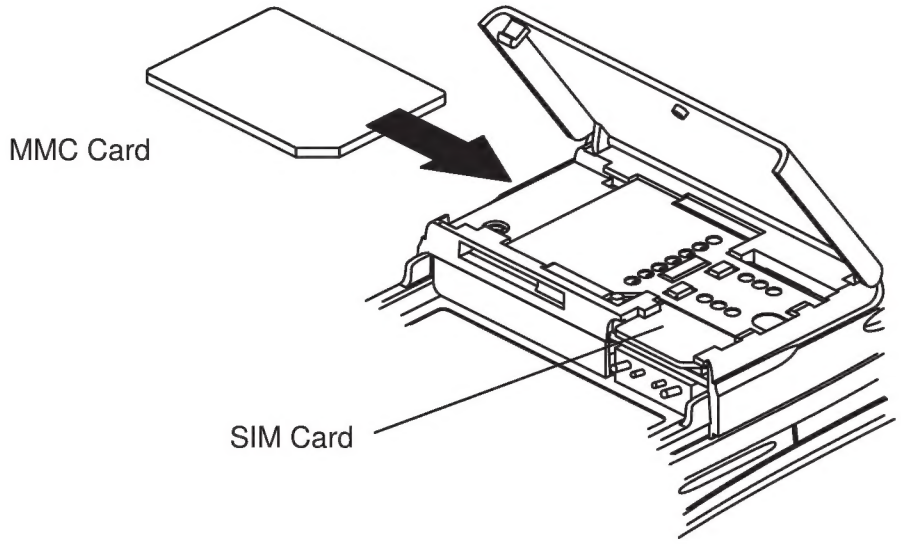

Figure 3: MMC and SIM Cards

The RAE–3 is running both PDA and phone software in a single RISC CPU. The RAE–3 is also using EPOC32 operating system based software platform. (EPOC32 is an operating system from Psion Software Inc.)

NOTE: Due to the infrared data link the RAE–3 is officially specificed as :

CLASS 1 LASER PRODUCT.

See IEC 60825–1 specification 825–1; Labelling, 5.1 General 5.2 Class 1.

List Of Modules

The bottom assembly contains one electronic module. This contains a single PWB (BL8). This PWB is common for all European language variants and will be updated with a different memory configuration for the Chinese variants.

Name of module	Type code	Notes
RF & System Module	BL8	Standard BL8 PWB with FLASH memories
Keyboard and hinge flex module	UL8	Module built up from FL1 FPC, AF8 audio PWB and connectors
UI Module	DL2	PDA & CMT displays built onto UL2 PWB
Mechanics	MRAE–3	All mechanical parts excluding language dependant parts, like QWERTY–Keymat and some others.

For variant information kindly refer to the Variants section of this manual.

Accessories

General Accessories

Batteries:

Name of module	Type code	Material code	Notes
High–power Battery	BLL–3	0670290	Lithium–ion 1300 mAh (prismatic cell)

Chargers:

Name of module	Type code	Material code	Notes
Performance Travel Charger	ACP–9E	0675149	Euro–plug, operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP–9X	0675150	UK–plug, operating voltage 90 .. 264 Vac
Performance Travel Charger	ACP–9C	0675204	Chinese–plug and label. 90 .. 264 Vac
Performance Travel Charger	ACP–9A	0675152	Australia–plug, operating voltage 90 .. 264 Vac
Charger cable	PCC–3	0730119	Cable to be used with performance travel chargers
Mobile Charger	LCH–9	0675120	Operating voltage 10.8 .. 32 Vdc

Portable And Office Accessories

Name of module	Type code	Material code	Notes
Headset	HDC–8L	0694079	
Belt Clip	BCH–17	0271664	
Carry Case	CBR–44	0720262	
Advanced Desktop Stand	DCH–10	0675209	
RS232 Adapter Cable	DLR–2	0271367	Cable between communicator and PC serial port
Memory Card	DTS–16	0271658	

Mobile Accessories

Name of module	Type code	Material code	Notes
Advanced Active Car Holder	CRM–1	0630220	
Mounting Plate	MKU–1	0620036	
Swivel Mount	HHS–13	0620055	
Hands Free	HFU–2	0694049	Hands free to be used with MCC–x

Name of module	Type code	Material code	Notes
Handset	HSU–1	0640047	Handset to be used with HFU–2
HF Microphone	HFM–8	0690016	Microphone to be used with HFU–2
HF Speaker	HFS–12	0692008	Speaker to be used with HFU–2
Power cable	PCH–4J	0730055	Power cable to be used with HFU–2
Memory Card	DTS–16	0271658	

Application Structure

Communicator user interface includes application buttons for easy activation of applications or application groups. Applications can be moved between application groups (Desk, Internet, Office and Extras). Application group buttons can also be used for browsing through active tasks and applications within the application group . The following picture (Figure 1) and table (Table 1) describe the application buttons and contents.

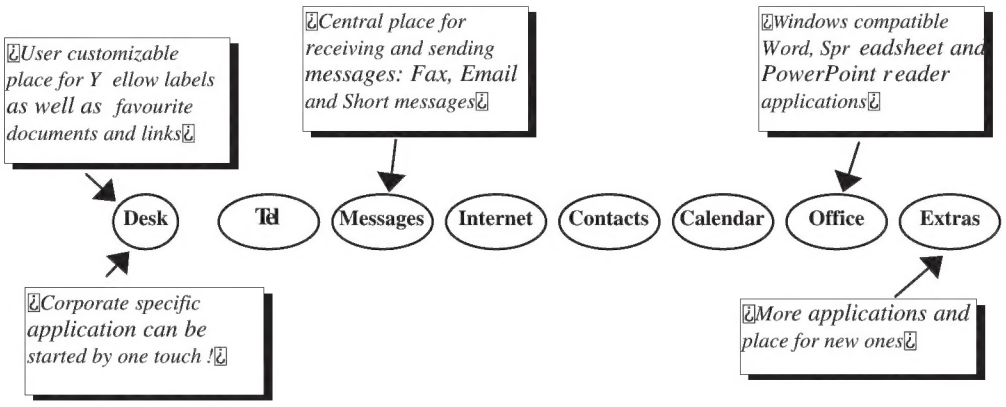
¿User customizable place for Y ellow labels as well as favourite documents and links¿
¿Central place for receiving and sending messages: Fax, Email and Short messages¿
¿Windows compatible Word, Spr eadsheet and PowerPoint r eader applications¿
Desk
Tel
Messages
Internet
Contacts
Calendar
Office
Extras
¿Corporate specific application can be started by one touch !¿
¿More applications and place for new ones¿

Figure 1. Application keys and contents

Critical Applications are installed in XIP Flash and Serial Flash memories. Further Applications are supplied on the Memory Card. Applications supplied on the CDROM in the sales package can be installed to the Serial Flash or Memory Card.

Table 1. Application keys and contents

Name of application key	Applications
Desk	User customized
Tel	Telephone
Messages	Fax Short messages Mail
Internet	WWW WAP browser
Contacts	Contacts database
Calendar	Calendar, to–do list
Office	Word Sheet Presentation viewer File manager

Table 1. Application keys and contents (continued)

Name of application key	Applications
Extras	Control Panel – Security – Data Call barring – Date and Time – Install/remove – Internet access – Profiles – Display – Accessories – About product – Memory – Regional settings Help Clock Imaging Internet startup Data Manager Video Player Fax modem Recorder Cell broadcast Calculator
	Java Support

Detailed information of the PDA functions in RAE–3 is available in the User Guide.